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Prevention of Skin Cancer by Reducing Exposure to UV Light Through Mass Media Interventions

Skin cancer is the most common cancer in the United States. The strongest, preventable risk factor for developing skin cancer is exposure to the sun's ultraviolet (UV) rays. However, at least 50% of children as well as adults do not protect themselves adequately from UV exposure. While knowledge of the risk of sun exposure and the use of sun screen and other forms of sun protection have improved over the past two decades, a gap still exists between knowledge and behavior. The question is then, what are effective strategies to improve sun protective behavior?

A systematic review of published studies, conducted on behalf of the Task Force on Community Preventive Services by a team of experts, found insufficient evidence (i.e. studies) to determine the effectiveness of mass media interventions alone or coupled with small media interventions in: 1) improving "covering up" behavior [i.e. wearing protective clothing such as a shirt, long pants, and hat], or 2) increase in shade use or staying out of the sun during peak UV hours]. Sunscreen use was considered a secondary outcome meaning that a change in sunscreen use alone would not result in a recommendation but it should have accompanied one of the two recommendation outcomes. A determination that there is "insufficient evidence to determine effectiveness" does <u>not</u> mean that the intervention does not work, but rather indicates that additional research is needed to determine the effectiveness of these interventions.

Background on mass and small media interventions designed to improve sun-safety behaviors

- Mass media or small media interventions are designed to increase knowledge; influence attitude, beliefs, and intentions; and change behavior regarding sun-safety.
- Interventions were generally low-intensity interventions using tools such as:
 - public service announcements on television programs
 - CD-Rom based information kiosks
 - Reporting of UV index in newspapers
- Accompanying small media interventions included brochures, flyers, newsletters, informational letters or videos

Findings from the systematic review

Search results:

- 6000+ titles and citations screened
- 159 articles reviewed
- 85 studies included in one of the 9 intervention reviews conducted by the Task Force
- 3 qualifying studies

See citation information for all included and qualifying studies (hyperlink to xml file)

- In its review of available studies on the effectiveness of this intervention, three (3) studies were identified that addressed the effectiveness of mass media interventions either alone or with small media interventions in improving sun-safety behaviors. These studies were not considered sufficient for the Task Force to base a recommendation on given limitations in study designs and execution as well as the small number of studies that measured key behavioral or health outcomes such as improvements in knowledge and attitudes concerning sun protective behavior among clients.
- Additional detail regarding key components of research in this area that could be improved so as to increase the body of evidence of effectiveness is available as part of a broader set of research questions.

Action Items

• Use this finding and suggestions for improvement in research components and contact information from <u>Cancer Control PLANET</u> to find local cancer prevention partners to conduct or seek resources for further research.

Publications:

• MMWR/Recommendations and Reports – Fall 2003. A summary report on findings.

The Guide to Community Preventive Services (Community Guide) provides recommendations on population-based interventions to promote health and to prevent disease, injury, disability, and premature death, appropriate for use by communities and healthcare systems. For more information about the Community Guide (including links to publications and a variety of resources) see

<u>www.thecommunityguide.org</u> and for more information about Task Force findings on skin cancer prevention see <u>www.thecommunityguide.org/cancer/</u>

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